



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: :  
: Wang et al. :  
Application No. 10/076,881 : Art Unit: 1764  
: Filed: Feb 13, 2002 : Examiner: B. Yildirim  
: For: A CATALYST AND METHOD : Atty Docket: B-1482-CIP2  
: OF STEAM REFORMING :  
:

**INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Pursuant to the duty of disclosure under 37 CFR §§ 1.56 and 1.97-1.99, the documents listed on the attached Form(s) PTO-1449 are being brought to the attention of the Examiner in charge of the above-identified application. The fee set forth in 37 CFR § 1.17(p) is provided for in the accompanying Fee Transmittal Form. Any additional fees required for consideration of this paper, that are not provided for in the Fee Transmittal Form, are hereby authorized to be charged to Deposit Account No. 50-1749.

The Examiner is respectfully requested to initial the space adjacent each document entry on the Form(s) PTO-1449, and to return a copy of the initialled Form(s) PTO-1449 to confirm that the documents have been considered and have been officially made of record in this application.

12/31/2003 AWONDAF1 00000004 10076881

03 FC:1806

180.00 DP

If the Examiner has any questions or wishes to discuss this application, the Examiner is invited to telephone the undersigned representative at the number set forth below.

Respectfully submitted,

Date: 19 Dec. 2003

By: Frank S. Rosenberg

Frank S. Rosenberg  
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## Form PTO-1449

## Information Disclosure Citation

Attorney Docket  
B-1482-CIP2Application No.  
10/076,881Applicant  
Wang et al.Filing Date  
Feb 13, 2002Group Art Unit  
1764

## U.S. Patent Documents

| Examiner Initial |    | Patent Number | Date | Name                 | Class | Sub-Class | Filing Date |
|------------------|----|---------------|------|----------------------|-------|-----------|-------------|
|                  | AA | 4,414,140     | 1983 | Setzer et al.        | 503   | 303       |             |
|                  | AB | 4,473,543     | 1984 | Setzer et al.        | 423   | 652       |             |
|                  | AC | 4,740,290     | 1988 | Tomita et al.        | 208   | 67        |             |
|                  | AD | 3,926,583     | 1975 | Rostrup-Nielson      | 48    | 214       |             |
|                  | AE | 5,422,331     | 1995 | Galligan et al.      | 502   | 333       |             |
|                  | AF | 5,300,275     | 1994 | Lywood               | 423   | 655       |             |
|                  | AG | 4,581,157     | 1986 | Twigg                | 252   | 373       |             |
|                  | AH | 6,436,363     | 2002 | Hwang et al.         | 423   | 651       | 8/31/2000   |
|                  | AI | 4,261,862     | 1981 | Kinoshita            | 252   | 462       |             |
|                  | AJ | 5,366,719     | 1994 | van Wingerden et al. | 423   | 659       |             |
|                  | AK | 6,607,678     | 2003 | Wang et al.          | 252   | 373       | 2/16/2001   |
|                  | AL | 4,678,600     | 1987 | Stahl et al.         | 252   | 373       |             |

## Foreign Patent Documents

|  |    | Document Number  | Date | Country               | Class | Sub-Class | Translation |
|--|----|------------------|------|-----------------------|-------|-----------|-------------|
|  | AM | JP 61028451      | 1986 | Japan (abstract only) |       |           | Yes No      |
|  | AN | EP<br>1013603A1  | 2000 | Europe                |       |           | Yes No      |
|  | AO | WO<br>01/12540A1 | 2001 | PCT                   |       |           | Yes No      |

## Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)

|  |    |   |
|--|----|---|
|  | AP | International Search Report from PCT/US 02/04479 (October 2002)   |
|  | AQ | Burtin, "Influence of Surface Area and Additives on the Thermal Stability of Transition Alumina Catalyst Supports," Appl. Catal. 34, (1987) 225-238             |
|  | AR | McCabe et al., "The Effect of Alumina Phase Structure on the Dispersion of Rhodium/Alumina Catalysts," J. Catal., 151, 385-393 (1995)                           |
|  | AS | Das et al., "Influence of processing medium on retention of specific surface area of gamma-alumina at elevated temperature," Appl. Catal. A., 207 (2001) 95-102 |

Examiner

Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



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|------------------|----|--------------------|------|-------------|-------|-----------|-------------|
|                  | AA | 2001/0032965<br>A1 | 2001 | Wang et al. | 252   | 373       |             |
|                  | AB |                    |      |             |       |           |             |
|                  | AC |                    |      |             |       |           |             |
|                  | AD |                    |      |             |       |           |             |
|                  | AE |                    |      |             |       |           |             |
|                  | AF |                    |      |             |       |           |             |
|                  | AG |                    |      |             |       |           |             |

## Foreign Patent Documents

|  |    | Document Number   | Date | Country | Class | Sub-Class | Translation |
|--|----|-------------------|------|---------|-------|-----------|-------------|
|  | AM | GB 1003147A       | 1966 | Britain |       |           | Yes_No      |
|  | AN | EP<br>0333037A2   | 1989 | Europe  |       |           | Yes No      |
|  | AO | WO<br>03/035255A2 | 2003 | PCT     |       |           | Yes No      |

## Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)

|  |    |   |
|--|----|---|
|  | AP | International Search Report from PCT/US 02/04479 (October 2002)<br><i>written opinion</i>   |
|  | AQ | Yeung et al., "Mesoporous alumina membranes: Synthesis, characterization, thermal stability and nonuniform distribution of catalyst," J. Membrane Sci., 131 (1997) 9-28 |
|  | AR | Wang et al., "Carbon dioxide reforming of methane to synthesis gas over supported rhodium catalysts: the effect of support," Appl. Catal. A., 204 (2000) 143-152.       |
|  | AS | Schaper, "The influence of dopes on the stability of gamma alumina supports," Proceedings of the 5th conf. On sintering, 14, 173-176 (1982).                            |
|  | AT | Church et al., "Stabilisation of aluminas by rare earth and alkaline earth ions," Appl. Catal. A., 101 (1993) 105-116   |

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Date Considered

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